

CAPILLARY ELECTROKINESIS BASED CELLULAR ASSAYS**ABSTRACT OF THE DISCLOSURE**

- 5 Cell based assays are performed in a microfluidic device, where the cells are introduced into a reservoir and are contacted with one or more agents prior to or during their residence in the reservoir or in a capillary channel connected to the reservoir. The cells are moved by electrophoresis individually from the reservoir to a detector, where the status of the cells as a result of contacting said agents is determined. Conditions are
10 provided for moving the cells electrophoretically or by electroosmotic force, where the cells may be viable or fixed, natural or genetically modified.

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